

Special Issue

Ultra High Energy Photons

Message from the Guest Editors

Photons at ultra-high energies (UHE) are not yet observed but still very promising candidate particles of cosmic rays. Photons are sensitive probes of the extragalactic ambient (e.g., EBL, magnetic fields), new physics scenarios (violation of the Lorentz invariance, photon-axion conversion, etc.) and properties of the astrophysical sources of the highest energy cosmic rays. Experimental results impose stringent constraints on the flux of UHE photons. Nevertheless, observatories worldwide are currently enhancing their sensitivity and should ultimately be able to observe ultra-high energy photons in the coming year or exclude many astrophysical scenarios which describe their origin and propagation. This Special Issue aims to collect contributions related to the above-mentioned topic and review the current experimental results. The perspectives for the future and contributions on the implications of a detection or non-detection of ultra-high energy photons are also covered.

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About the Journal

Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

Editor-in-Chief

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